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U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

1969 ANNUAL REPORT OF

PLANT MATERIALS CENTER

COFFEEVILLE, MISSISSIPPI PART I



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U. S. DEPT. OF AGRICULTURAL MERA

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Organization of the Soil Conservation Service Plant Materials Center

Plant Materials Center Staff

| B. B. Billingsley, Jr., Acting Manager |
|---|
| J. H. Adams Supervisory Biological Technician |
| Lillian J. Stebbing Clerk Stenographer |
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| Jimmie Miller |
| James Smith |



COFFREVILLE PLANT MATERIALS CENTER

ANNUAL TECHNICAL REPORT

1969

This report covers the technical activities of the Coffeeville Plant Materials Center for the calendar year, 1969.

The Coffeeville Plant Materials Center is located approximately seven miles west of Coffeeville, Mississippi on the Tillatoba Road. It is situated in the loessial soil resource area and comprises about 195 acres of land leased from the U.S. Forest Service. The principal soils are:

Waverly - Poorly drained acid bottom land with 0 - 2 per cent slope.

Grenada silt loam - Moderately well drained upland soil with gentle to steep slope. Erosion is moderate to severe.

Calleway silt loam - Somewhat poorly drained upland soil, nearly level to gently sloping. Erosion is slight to moderate.

Lesser amounts of other soils also occur there, giving varying soil conditions on which plants can be tested.

Weather Summary

Temperatures of the winter of 1968 - 69 were milder than usual. The summer of 1969 was quite hot, with periods of drought which affected certain crops adversely. Highs of 100 degrees + were recorded in late June. Periods of drought occurred in June, July, and August and rainfall was below normal in the fall of 1969. A monthly rainfall summary for the year follows:

| January | 3.08 | inches | May | 3.66 | inches | September | 3.49 | inches |
|----------|------|--------|--------|------|--------|-----------|------|--------|
| February | 6.31 | 48 | June | 2.28 | It | October | 2.00 | n |
| March | 4.07 | 19 | July | 3.48 | 11 | November | 6.08 | Ħ |
| April | 7.41 | 11 | August | 3.43 | 11 | December | 9.59 | 11 |

Total rainfall for the year, 55.04 inches.

Assembly of Plant Materials

A total of 236 new accessions of plants were received at this Center in 1969. The following list includes groups of ten or more accessions of plants and the principal conservation problem(s) for which they will be tested:

Number of

| Principal Conservation Problems | Species | Accessions |
|--|--|-------------------|
| 1. Potential as summer forage legumes | Adesmia, Adesmia | 12 |
| 2. Possible cool season forage plants | Agropyron, Wheatgrasses Bromus, Bromegrasses Helictotrichon, Spikeoats Festuca, Fescue | 3h 6 4 3 |
| Critical area stabilization and/or wildlife food plants on dry calcareous sites: | Atriplex, Saltbush | 19 |
| 4. Possible warm season forage plants: | Chloris, Windmillgrass | 26 |
| 5. Critical area stabilization: | Cytisus, Broom | 10 |
| 6. Potential control of stream- bank and/or reservoir leves erosion: | Paspalum distichum, Knotgra | iss 11 |
| 7. Erosion control and/or warm season forage grasses. These have been observed for one growing season and some appear to have good potential: | Paspalum nicorae, Brunswick | grass 16 |
| 8. Warm season forage plants. These have been observed for one growing season and severa produced large quantities of forage and seem to have good | | |

paspalum 23
In addition to the preceding 164 accessions, 72 additional accessions
were received in lots smaller than 10. These will be observed for
their potential to solve conservation problems to which they appear
best suited.

Paspalum plicatulum, Brownseed

possibilities:

Plans were made to make collections of Coreopsis sp. and Eupatorium coelestinum for observation as possible conservation-beautification plants. These collections were not made in 1969.

II. INITIAL EVALUATIONS

A total of 651 new and previously grown accessions were growing at the Coffeeville Plant Materials Center in 1969. Listed are a few plants in the initial observation which appear to have excellent potentials:

- 1. MS 2934 Echinochloa frumentacea This Japanese millet produced large amounts of seed which should be good waterfowl food. No disease, nor insect injury, was observed.
- 2. MS 3101 Paspalum plicatulum This plant is an excellent forage producer. It showed no insect damage and produced good quantities of seed despite a slight amount of ergot infection. It should be a good warm season forage plant if it is winter hardy.
- 3. MS 2916 Hemarthria altissima, Haltgrass This plant has withstood one winter at Coffeeville and has shown adequate winter hardiness. It produces large amounts of forage, spreads rapidly by stolons, and grows well over a long period of time. Very few, if any, viable seed are produced.
- 4. MS 3004 Paspalum notatum This wide leaf form of bahiagrass has made exceptional growth and spread its first year. The leaves are dark green and soft and the forage production is very good. Seed production is adequate with a high percentage of filled seed the first year. Acceptance and use may well hinge on whether it is winter hardy.
- 5. MS 2641 Phalaris tuberosa This cool season grass has a dense growth of leaves and is an exceptional forage producer. The leaves are soft and medium wide, and continue growth most of the winter. Seed production the first spring was good. This should be a good cool season forage plant.

III. ADVANCED EVALUATIONS

A. MS 540, Phalaris arundinacea, reed canarygrass, was planted in a row 33 feet long on a continuous grade from 6 inches above water to 6 inches below water. Observations concerning water tolerance and seed production were made. The 6 inches of water did not retard growth appreciably; but few, if any, seed were produced anywhere along the row.

4-21025 4-70

III. Advanced Evaluations - continued

- B. Hemoracallis sp., daylily. Eleven accessions were compared for vigor, spread, beauty, ground cover, etc. Four accessions do not vary considerably, but MS 2165, which is being increased, looks best. It makes a dense ground cover, spreads well by tubers, and has attractive blossoms.
- C. Lespedeza spp. Four accessions of Lespedeza were compared for value as plants to vegetate abandoned mine spoils, stabilize critical areas, and control erosion on cut slopes of roadbanks and similar areas. These four plants are:

Lespedeza cuneata, Nasu 10, sericea, MS 119 Common sericea, MS 2146

intermixta, MS 280

virgata, Spreading lespedeza, MS 126

Lespedeza virgata, MS 126, has looked best from an overall standroint of vigor, spread, ground cover, growth characteristics, seed production, etc.,

D. Tests have been under way for 20 months to determine the best 'ate, and depth to plant five accessions of plants: Paspalum nicorae, MS 906; Echinochloa holubii, MS 924; Lespedeza virgata, MS 126; Panicum virgatum, MS 155; and Paspalum notatum, MS 131. The plantings were made at 0", 1/4", 1/2", 1", and 1 1/2" depths each month and when complete will cover a three year period. Results gained to date are inconclusive; but generalities for each are shown as follows:

Echinochloa holubii, Limpopograss, MS 924. Germination was better at the 1/4", 1/2" and 1" depths than at plantings either deeper or more shallow. Survival at all depths was rather constant.

Paspalum nicorae, Amcorae brunswickgrass, MS 906. Germination does not differ greatly between any of the five depths. Survival one year after germination is much better at the 1^m or $1\frac{1}{2}^m$ planting depth.

Lespedeza virgata, spreading lespedeza, MS 126. Germination at the 0", 1/4", and 1/2" depths has been considerably better than at deeper plantings. Survival has been rather constant at all depths.

TTT. Advanced Evaluations - continued-

D. Panicum virgatum, Pangburn switchgrass, MS 155. Germination has been best at depths of 1/2", 3/4" and 1". Survival at the 1 1/2" depth has not been so good as at the more shallow depths.

Paspalum notatum, Wilmington bahiagrass, MS 131. Germination at the O" depth has been inferior to that of deeper plantings. Survival at all depths has been quite constant.

- E. Spartina patens, MS 2360, was planted vegetatively in rows grading from 6th above water to a 6th water depth to check for seed production. Seed production was poor the entire row lengths.
- F. Fescue. Eight accessions of fescue were planted in 5 x 20 ft. plots in October, 1967, on Grenada silt loam soil. They are being compared for total forage production, sod forming ability and only a small amount of summer growth from any of the eight. The results of a May 19, 1969 clipping are shown below:

Festuca arundinacea:

| Variety | MS No. | Por Green Weight | ands Air Dry Weight |
|---------|--------|---------------------|------------------------|
| Ky 31 | 1601 | 57 | 16 |
| Artren | 539 | 51 | 15 1 |
| Goar | 2656 | 43 3/4 | 15 |
| Arflag | 538 | 41 | 14 |
| Alta | 2658 | 41 | 13 |
| Uruguay | 2329 | 38 | 12 |
| Fawn | 2657 | 30 <u>÷</u> | 10출 |
| Kenwell | 2659 | 29 2 | 9출 |

- G. Lespedeza japonica. Three accessions of Lespedeza japonica, MS 1643, MS 1850, and MS 2503 were clipped in May and August to determine their ability to withstand a clipping regime. These plants have not made good recovery after the sedond clipping and forage production appeared to be reduced considerably.
- H. Four accessions of plants were planted in a stream channel near Coffeeville in 1966 for testing as streambank erosion control plants. Listed are some observations as to the merits of each plant:
 - 1. Echinochloa holubii, Limpopograss, MS 924. This grass has maintained a good stand and spread is fair (average 2 feet

III. Advanced Evaluations - continued H. 1.

- width). A fair amount of silt has built up in plants but some washing is occurring between plants and bottom of slope.
- 2. Panicum hemitomon, Maidencane, MS 2138. Plants have maintained a good stand and spread well (average 4 6 feet). There is a good build-up of silt in plants. The maidencane is making some spread up slope.
- 3. Salix hastata, Halberd willow, MS 863. Plants have maintained a good stand and there is a very good build-up of silt within the stand. Soil sloughing from top of slope catches behind plants and grasses (Indiangrass, little bluestem, bermudagrass, etc.,) are invading on this area.
- 4. Salix interior, Sandbar willow, MS 880. Stand is good but not as dense as that of Halberd willow and plants are taller. This plant is rhizomatous and spreads well. Soil sloughing from top of slope is catching behind plants and is being invaded by grasses and broadleaf plants.
- I. A grass adapted to the calcareous areas of East Mississippi and West Alabama, capable of producing good quantities of forage is needed. In an attempt to find such a grass, 23 accessions of buffelgrass, Pennisetum spp., obtained from Dr. Bashaw at Texas A & M University, were planted in rod rows in 1968. These grasses all winter killed at Coffeeville during the winter of 1968 69. This was a mild winter and some of these grasses were expected to withstand the winter here. Perhaps a combination of cold and soil moisture in excess of that from their usual range caused these plants to die.
- J. A test was made to find a plant capable of producing good quantities of waterfowl food when planted as late as mid-July. Four accessions of Echinochloa were planted July 23, 1969 in triplicate rows for comparison of yields. Due to shattering and bird use, exact yields were not determined but the plants are listed in order, from best to least yields, from observation:

MS 181 - Echinochloa frumentacea
MS 188 - " crusgalli
MS 182 - " "
MS 187 - " "

III. Advanced Evaluations - continued:

J. None of the plants had yields comparable to that which can be obtained with MS 181, Echinochloa frumentace, when planted in early June. All plants did mature seed, however.

Field Evaluations will be covered under report by Mr. T. A. Bown, Field PM Specialist for the three states, Mississippi, Arkansas, and Louisiana.

ANNUAL TECHNICAL REPORT -Plant and Seed Increases

| Flant and Seed Increases | MO | PT or | Amount. Pl | Planned / | Area in | Amount Harwestad | mestad | Purpose of |
|---|-------------------|---------------|------------|--------------|--|------------------|---------|----------------------|
| Species | | Other No:See | d(1bs):P | lants(ea):Pi | Other No.Seed(1bs):Plants(ea):Production:Seed(1bs):Plants(ea | d(1bs):Pl | | : Increase |
| Ampelopsis brevipend. Amur ampelopsis | 2665 | NC 67-14 | | 300 | 300° r. | | 77 | (See App.A) 22, 5 |
| Arachis monticola Reseeding peanut | 528 | 263393 | 200 | | | 15 | | 20, 12 |
| Callicarpa americana Beautyberry | 2933 | | | 0 | 100° r. | | 20 | 22, 12 |
| Castanea alnifolia Trafling chinquapin | 7 | | | 0 | 200° r. | | 959 | 12 |
| Coreopsis lanceolata | 2378 | | 2 02. | | 1 rod row | 2 oz. | | 22 |
| Cotoneaster racemiflora 2936A 297597 Redbead cotoneaster | ra 2936 | A 297597 | | 0 | 100' r. | | 75 | 22 |
| Crataegus sp., Hawthorn | 2460 | 2l160 AM 2302 | | 5,500 | 500' r. | | 0 | 12, 22 |
| Cynodon dactylon, 23' Tifdward bermudagrass, Reg. | 2371, Reg. | AM 1283 | | 5,000 sq.f | 5,000 sq.ft. 5000 sq.ft. | ٠ | 50 sq.f | 50 sq.ft. 10,11,4 |
| Cynodon dactylon, Tifdwarf bermudagrass, | 21.36 AM Non-Reg. | AM 1283 | | 200 sq.ft. | 200 sq.ft. | | 0 | 10, 11, 4 |
| Cynodon dactylon, Tufcote bermudagrass, | 2372 Reg. | BN 4198 | | 5000 sq.ft. | . 5,000 sq.ft. | ڊير | 1947 30 | 1947 sq.ft. 10,11,4 |
| Cynodon dactylon, Tufcote bermudagrass, | 527 Bi | BN 4198 8• | | 900 sq.ft. | • 900 sq.ft. | ڈیر | 180 sc | 180 sq.ft. 10,11,4 |
| Echinochloa frument. Chiwapa japanese millet | 181 .et | BN 8963-57 | 1600 | | | 3,850 | | 12 |

ANNUAL TECHNICAL REPORT 4-21025 4-70

| Plant and Seed Increase | | | | | | | | |
|---|-----------|-----------------------|-----------------------------------|-----------------------|--|--|--------------------|-------------------------|
| Species | MS No. | PI or :Other No:Se | Amount Planned sed(1bs):Plants | lanned Plants(ea): | Amount Planned Area in Amount Harvested F No:Seed(lbs):Plants(ea):Production:Seed(lbs):Plants(ea) | Amount Harvested Seed(1bs):Plants(e | vested ants(ea) | Purpose of Increase |
| Echinochloa holubii Limpopograss | 924 | 207924 | 200 | | 1/2 ac. | 190 | | (See App.A) 5, 7, 21 |
| Elaeagnus umbellata Autumnolive | 432 | NS 12090 | | 500 | 100° r. | | 325 | 3, 12, 22 |
| Elaeagnus umbellata Autumnolive | 1462 | | | 9009 | 400° r. | | 180 | 3, 12, 22 |
| Eragrostis curvula Lovegrass (Weeping) | 268 | 234558 | 2000 | | 16 ac. | 150 | | 1,2,4,6 |
| Eragrostis robusta Big lovegrass | 394 | 209-385 | 10 | | 500° r. | 20 1 | | 1, 2, 4, 6 |
| Eragrostis robusta Big lovegrass | 1443 | 234218 | 10 | | 500° r. | h oz. | | 1, 2, 4, 6 |
| Festuca arundinacea Artren fescue | 539 | F 1079 | 30 | | 1/10 ac. | 15 | | 19, 15 |
| Festuca arundinacea Ky 31 fescue | 1091 | | 1,8000 | | 70 ac. | 17800 | | 19, 15 |
| Glycine ussuriensis Wild soybeans | 128 | 163453 | 1,00 | | 3 ac. | 625 | | 12 |
| Hemoracallis sp. Daylily | 2165 | | | 2000 | 1/2 ac. | 2000 | | 22, 6 |
| Ilex vomitoria Youpon holly | 2946 | | | 500 | 50° r. | 0 | | 22 |
| Juglans nigra Black walmt | 2937 | | | 0 | 300° r. | | 575 | 12 |

ANNUAL TECHNICAL REPORT Plant and Seed Increase

| 4-21 02 | ANNUAL TECHNICAL REPORT | 1 | | Tell Diegenweisskunder-estera inch diegen | er en | | | | |
|---------|---|-----------|----------------------------------|---|--|-----------------------|-------------------|---------------------------------------|-----------------------|
| 25 4- | Species | MS No. | PI or Amount :Other No:Seed(1bs) | | Planned Area in An :Plants(ea):Production:Sead(| Area in roduction: | Amount Seed(1bs): | Amount Harvested d(1bs):Plants(ea) | Purpose of : Increase |
| 70 | | 2938 | | | 0 | 3001 r. | | 625 | (See App. A) |
| | Lespedeza cuneata Sericea | 27746 | | 11,000 | | 60 ac. | 1,200 | | 1, 3, 4, 6 |
| | Lespedeza virgata Spreading Lespedeza | 126 | 218004 | 300 | | 2 ac. | 550 | | 1, 3, 4, 6 |
| | Lonicera maacki Amur honeysuckle | 2161 | BN 8318 | | 300 | 400° r. | | 350 | 12, 22 |
| . 10 | Malus hupehensis Crabapple | 150 | 122586 | | 8500 | 400° r. | | 1600 | 12, 22 |
| | Panicum hemitomon Maidencane | 2138 | NC 64-4 | | 000,111 | 1 ac. | | 23,000 | 5, 7 |
| | Panicum virgatum Switchgrass (Wabasso) | 17 | F 686 | 8 | | 100f r. | 1/2 | | 6, 16, 17 |
| | Panicum virgatum Switchgrass(Stuart) | 18 | AM 181 | 8 | | 1000 г. | 20 9 | • | 69 16, 17 |
| | Panicum virgatum Pangburn switchgrass | 155 | BN 11,668 | 300 | | 3 ac. | 320 | | 6, 16, 17 |
| | Panicum virgatum Kanlow switchgrass | 1415 | PMK 160 | 8 | | 100° r. | 1 02. | • 2 | 6, 16, 17 |
| | Panicum texanum | 358 | F 639 | 700 | | 2 ac. | 65 | | 12 |

| | 4-2102 | ANNUAL TECHNICAL REPORT Plant and Seed Increase | E I | D. Carlotte Co. Ca | | - | | - | 1 | i c |
|--------|--------|--|--------|--|---|--------------------------------|-----------------------|---------------------------------------|---------------------------------------|---------------------|
| | 5 4-7 | M Species | MS :04 | PI or)ther No.: | PI or Amount Planned Other No.:Seed(1bs)Plants(ea | Amount Planned (1bs)Plants(ea) | Area in Production | Amount Harveste :Seed(1bs):Flants(| Amount Harvested Fed(1bs):Plants(ea): | Purpose of Increase |
| | 0 | Paspalum notatum 1 Wilmington bahiagrass | 131 / | AM 1284 | 3000 | | දීට ෂර | 170 | | 4, 18, 14 |
| | | Phalaris arundinacea 5 Reed canarygrass | 5/10 | F 1208 | H | | 300° r. | 0 | | 19 |
| | | Phyllostachys bissetti 499 Bisset bamboo | | 1,13540 | | в В | 300° r. | | 830 rh 49 p 1 . | 8, 11 |
| | | Phyllostachys meyerii Bamboo | 1,98 | 116768 | | | 300° r. | | 530 rh 29 pl | 8, 11 |
| | | Phyllostachys meyeril Bamboo | 500 | AM 315 | | စီ ပြ | 300° r. | | 1,020 rh. 53 pl. | 8, 11 |
| - 11 - | | Pistacia chinensis Chinese pistache | 2182 | 21970 | | 300 | 200° r. | | 700 | 22, 12 |
| | | Pittosporum tobira Tobira pittosporum | 2678 | NC 67-23 | m | | 50° r. | | 21* | 22 |
| | | Prunus caroliniana Carolina laurelcherry | 2693 | | | 1500 | 400 r. | | 625 | 22, 12 |
| | | Prunus caroliniana Carolina laurelcherry | 2947 | | | 100 | 75° r. | | 200 | 22, 12 |
| | | Pyracantha sp., | 2670 | | | 0 | 1001 | | 32* | 22 |
| | | Pyracantha coccinea Scarlet firethorn | 366 | AM 170 | | С | 400' r. | | 125* | 22 |

* Carried over from previous year

ANNUAL TECHNICAL REPORT Plant and Seed Increase

| 8000000 4-000000000000000000000000000000 | 0.0 | PI or Other No.:Se | MS PI or Amount Planned No.:Other No.:Seed(1bs):Plants(ea) | Area in Production:See | Area in Amount Harvested Froduction:Seed(1bs):Flants(ea): | Purpose of Increase |
|---|------|-----------------------|---|------------------------|---|---------------------|
| Quercus myrsinaefolia Evergreen oak | 89 | 74222 | 0 | 100' r. | 51* | 22 |
| Quercus punila Runner oak | 370 | AM 305 | 0 | 1,0° r. | 16* | 12 |
| Quercus punila Runner oak | 371 | AM 306 | 0 | 40° r. | * | 12 |
| Quercus pumila Runner oak | 372 | AM 262 | 0 | 40° r. | 56* | 12 |
| Quercus virginiana Live oak | 2939 | NC 68-20 | 0 | 751 r. | 11.* | 55 |
| Quercus virginiana Live oak | 2940 | NC 68-21 | 0 | 120° r. | 125 | 22 |
| Robinia pseudocacia Black locust | 2906 | 257022 | 0 | 10° r. | 6 | 1, 12, 3 |
| Salix glaucophylloides Blueleaf willow | 881 | BN 13666-63 | 3 100 | 30° r. | 100 | 5,7 |
| Salix hastata, Halberd willow | 863 | BN 13679-63 | 3 12650 | 1/8 ac. | 2560 | 5, 7 |
| Salix interior Sandbar willow | 880 | 59-12961 NS | 3 11650 | 1/8 ac. | 9890 | 5,7 |
| Themeda triandra Themeda | 1870 | 276070 | #5 | 1,00° row | 0 | 3, 4 |

| D. woode | rurpose or | р, б | 6, h | 19, 20 | 22 | 5, 7 | ч |
|-------------------------|--|---------------------------------|-------------------------------------|---|---------------------------|--|-------------------|
| A Cross of Land | Area in Amount Harvested rurpose of Production: Seed(1bs):Plants(ea): Increase | | 1,110 | 2,405 | 0 | 0 | 158 Tons |
| | Area in Production: | 1,00° row | 10 ac. | 9 ac• | 200 sq.ft. | 100 sq.ft. | 175 ac. |
| | MS PI or Amount Planned : No.:Other No. :Seed(1bs):Plants(ea) | w | 1000 | 2600 | 1,000 | 2 | 350 Tons |
| | PI or Other No. | | 206926 | 233782 | | | |
| EH O | No. | 7/1/4 | 989 | 329 'er | 2362 | 646 | (FP) |
| ANNUAL TECHNICAL REPORT | | Tridens flava Purpletop triodia | Trifolium nigrescens Ball clover | Trifolium vesiculosum 329 Meechee arrowleaf clover | Vinca major Periwinkle | Zizaniopsis miliacea Giant cutgrass | Mulching material |
| 4-2 | 1025 | 4-70 | | | | - | 13 |

IV. Certification and Release -

Two plants have been previously released as New Crops at the Coffeeville Plant Materials Center. These are Meechee arrow-leaf clover, Trifolium vesiculosum, and Chiwapa millet, Echinochloa frumentacea. Foundation seed of both are usually grown at the Center but in 1969 Foundation seed of only Meechee arrowleaf clover was produced. A lack of understanding and/or communication between the Center and persons at Foundation Seed Stock prevented the field of Chiwapa millet from being certified in 1969.

A field of Wilmington bahiagrass, Paspalum notatum, was inspected in 1969 and passed the field inspection. Pending the results of germination and purity analyses test, the seed from this field will be certified as Foundation Seed.

V. Information

a. Articles:

Several articles were written in 1969 which publicized the Coffeeville Plant Materials Center. The titles of three such articles and the magazines in which they were printed are listed:

Kight, Troy G. 1969. Plant Centers Find New Crops for You. Progressive Farmer, Mississippi, Arkansas, and Louisiana Ed. 84(4): 72E and 72F

Knight, W. E., V. E. Ahlrich, and Morris Byrd, 1969. Registration of Meechee Arrowleaf Clover. Crop Science 9:393

Leard, H. H. 1969. Mississippi's Super Clover. Mississippi Farmer, August issue.

Articles covering meetings and group visitations at the Center were printed in newspapers of a local nature but some did appear in papers of wider distribution.

V. Information -

b - Visitation

- (1) Approximately 200 4-H Glub members, along with several leaders and advisors from Grenada, Tallahatchie, and Yalobusha Counties, Mississippi, visited on two separate dates as two individual groups.
- (2) Fourteen students and one professor from the Pharmacy Department of the University of Mississippi
- (3) The office staff of the Yalobusha County Agricultural Stabilization and Conservation Service
- (4) Numerous persons visited the Center as individuals, or very small groups with no pre-arranged plans made for their visits.

c - Meetings -

The Soil Conservation District Commissioners of Area II met at the Coffeeville Plant Materials Center on July 23, 1969. As a part of the meeting, the group toured the Center facilities and had lunch under plane trees near the headquarters buildings. A total of more than one hundred persons attended.





